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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/657,299	09/08/2003	He Huang	3309R-149	9770	
7590 11/24/2004 McCormick, Paulding & Huber LLP 185 Asylum Street CityPlace II			EXAMINER		
			SPITZER, ROBERT H		
			ART UNIT	PAPER NUMBER	
Hartford, CT (06103		1724		
·			DATE MAILED: 11/24/2004	DATE MAILED: 11/24/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/657,299	HUANG ET AL.				
Office Action Summary		Examiner	Art Unit				
		Robert H. Spitzer	1724				
Period fo	The MAILING DATE of this communication app or Reply		ith the correspondence address				
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thir vill apply and will expire SIX (6) MONOR Cause the application to be seen and some of the cause the application to be seen and some of the cause the application to be seen and some of the cause the application to be seen and some of the cause the application to be seen and some of the cause the application to be seen as the cause of	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this communication.				
Status							
1)[Responsive to communication(s) filed on 07 Se	eptember 2004					
2a)							
3)	- The second to their middle						
ļ t	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims	•	,				
	Claim(s) 1-57 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) 1-10,13-26 and 28-57 is/are allowed.						
6)⊠ Claim(s) <u>11,12 and 27</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	election requirement					
		oloollon requirement.	·				
	on Papers						
	The specification is objected to by the Examiner						
10)[⊻]	The drawing(s) filed on <u>08 September 2003</u> is/a	re: a) \square accepted or b) $ ot \Sigma$	objected to by the Examiner.				
	Applicant may not request that any objection to the c	Irawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
44)[]-	Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)[_]	The oath or declaration is objected to by the Exa	aminer. Note the attached	Office Action or form PTO-152.				
Priority u	nder 35 U.S.C. § 119						
12)[☐ <i>[</i> a)[Acknowledgment is made of a claim for foreign p ☐ All b)☐ Some * c)☐ None of:		119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the priority documents have been received in this National Stage 							
* 0	application from the International Bureau	(PCT Rule 17.2(a)).					
" Si	ee the attached detailed Office action for a list o	f the certified copies not r	received.				
Attachment(s)						
1) Notice	of References Cited (PTO-892)	4) Interview Su	ummary (PTO-413)				
2) Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date				
Paper	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 05/20/2004.	5) Notice of Inf 6) Other:	formal Patent Application (PTO-152)				
S. Patent and Tra	demark Office	on Summary					
,	Onice Acti	on Summary	Part of Paper No./Mail Date 1122				

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DETAILED ACTION

- 1. Claims 1-10,13-26 and 28-57 are allowed.
- 2. The abstract of the disclosure is objected to because of the use of the legal phraseology of "means" and because of undue length, as it is approximately 174 words long. Correction is required. See MPEP § 608.01(b).

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 3. The drawing figures are objected to because they are sketches and because there is no description of number "82" in the specification. Provide the formal drawings in response to this Office action.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 11,12 and 27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 11 and 12 are indefinite because in lines 3 and 4, there is no direct antecedent basis for the recitation of "said aircraft"

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engine". Claim 12 is further indefinite because it recites "a turbine" without any correlation to "a gas turbine engine" previously recited in claim 1. Claim 27 is indefinite because it recites "at least one heat generating sub-system" without any correlation to the identical recitation in claim 15.

- 6. Claims 11,12 and 27 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 7. The references listed on both the PTO-1449 and the PTO-892 show art of interest only, over which the claims recite allowable subject matter.
- 8. Applicants' response to this Office action should also include the updating of the status of the parent case by inclusion of the patent number in line 3 of para. [0001] of the specification.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H. Spitzer whose telephone number is (571) 272-1167. The examiner can normally be reached on Monday-Thursday from (5:30AM-4:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 22, 2004

Robert H. Spitzer Primary Examiner Art Unit 1724

November 22, 2004